(c) and (d) No such cases have been reported to the Ministry of Agriculture.

Input cost of pulses

2233. SHRI S. S. AHLUWALIA: Will the Minister of AGRICULTURE be pleased to state:

(a) whether it is a fact that the input ratios for pulses and coarse grains are less as compared to wheat;

(b) whether Government have assessed the input cost of production of one tonne of wheat taking into account both direct and indirect subsidies given by the Central and State Government for its production, including the cost borne by the State Government for irrigation;

(c) the reciprocal investment with regard to pulses, oilseeds and coarse grains during the last 3 years; and

(d) whether Government propose to follow an equitable investment with a view to encouraging dry land farming which accounts for the production of pulses, oilseeds and coarse grains?

THE MINISTER OF STATE IN THE DEPARTMENT OF AGRICULTURE AND COOPERATION IN THE MINISTRY OF AGRICULTURE (SHRI YOGENDRA MAKWANA): (a) No, Sir. The output-input ratios worked out for wheat *vis-a-vis* pulses and coarse grains indicate a mixed trend.

(b) and (c) Yes, Sir. Assessment has been made to study the cost of production of one tonne of wheat taking into account all the inputs including subsidy.

The investment details with regard to the pulses, oilseeds, coarse grains and wheat for available 3 years based on the Comprehensive Scheme for studying the cost of cultivation of principal crops for major states are given in the attached statement-I. (*See* below).

(d) Realising that about 70 per cent of the cultivated land is un-irrigated and most of that is owned by small and marginal farmers, the Government of India initiated a development programme *viz.*, National Watershed Development Programme for Rainfed Farming, with a total outlay of Rs. 239 crores for the 7th Plan period from 1986-87. It is under implementation in 16 States. State-wise physical and annual requirement of funds for the year 1986-87 and for the year 1987-88 are given in the enclosed Statement II and III respectively. (*See* below).

With these investments, it is hoped that farmers would adopt improved rainfed farming systems for increasing and stabilising production of pulses, oilseeds and coarse grains which are mostly grown in drylands.

Statement—I

Aggregate investment with regard to coarse grains, pulses, oilseeds and wheat for the available years in major states

Stats	Year	(Rs. per hec.)	(Rs. per tonne)
1	2	3	4
	JOWAR		
Karnataka	1981-82	1183·07	120·60
	1982-83	1245·41	1507·50
	1983-84	1353·16	1171·40
Madhya Pradesh	1981-82	1267·34	1135·10
	1982-83	1179·06	1178·60
	1983-84	1146·33	1047·10

1	2	3	4
BAJRA			
Gujarat	1981-82	2363·98	1302·60
	1982-83	2297·70	1422·30
	1983-84	2365·01	1202·80
Rajasthan	1981-82	682·31	1223·90
	1982-83	644·12	1072·20
	1983-84	732·57	1165·00
MAIZE			
Himachal Pradesh	1981-82	2123·27	1289·70
	1982-83	1984·91	1108·00
	1983-84	2144·58	1211·70
Rajasthan	1982-83	1673·67	1310·40
	1983-84	2005·64	1198·80
RAGI			
Karnataka	1981-82	2293·01	1282·70
	1982-83	1763·96	1394·80
BARLEY			
Rajasthan	1981-82	2681·13	1107.70
	1982-83	2800·40	1135·90
	1983-84	2294·12	1232·10
GRAM			
Haryana	1981-82	1239·43	3239·70
	1982-83	1498·26	2686·40
	1983-84	1516·93	3192·70
Rajasthan	1981-82	1411·14	1924·20
	1982-83	1184·26	1809·90
	1983-84	1218·93	2119·30
ARHAR			
Karnataka	1981-82	1061·64	2440·50
	1982-83	1142·91	2695·40
	1983-84	1513·95	2624·60

1	2	3	4
MOONG			
Andhra Pradesh	1981-82	1259·73	2969·00
	1982-83	1264·13	3159·00
	1983-84	1479·99	3400·10
Madhya Pradesh	1981-82	1259·60	2572·60
	1982-83	1081·83	2668·50
	1983-84	923·97	2652·00
URAD			
Andhra Pradesh	1981-82	950·33	2665·60
	1982-83	1199·92	2402·00
	1983-84	1452·13	2934·60
Madhya Pradesh	1981-82	1193·45	2488·10
	1982-83	1058·71	2758·00
	1983-84	1164·95	2283·90
GROUND-NUT			
Gujarat	1981-82	3148·53	3315·20
	1982-83	3198·41	4448·00
	1983-84	3584·31	4110·40
RAPESEED & MUSTARD			
Rajasthan	1981-82	1436·88	2356·50
	1982-83	1267·76	2650·40
	1983-84	2065·53	2673·10
WHEAT			
Haryana	1981-82	3525·36	1223·20
	1982-83	3788·17	1350·00
	1983-84	4056·73	1409·30
Punjab	1981-82	3776·19	1187·70
	1982-83	4227·28	1251·90
	1983-84	4452·57	1374·70

NOTE : 1. Provisional and subject to revision.

2. Aggregate investment *i.e.* total cost includes cash and kind expenses such as fertiliser, manure, insecticides, irrigation charges, hired human labour, bullock and machine labour (both hired & owned), depreciation charges on implements and farm buildings, land revenue cases and other taxes, interest on working capital, miscellaneous expenses (artisan etc.), rent paid for leased in land and imputed rental value of owned land, interest on fixed capital and imputed value of family labour.

Statement—II

State-wise Physical targets and Annual Requirement of funds for the Works Programme, (1986-87)

Sl. No.	State	Annual Physical targets (1000 ha.)	Annual Outlay on works component @ Rs. 2500/- ha.	Central Share (Rs. in Crores)	State Share (Rs. in Crores)
1	2	3	4	5	6
1.	Andhra Pradesh	32	8·00	4·00	4·00
2	Gujarat	32	8·00	4·00	4·00
3	Haryana	2	0·50	0·25	0·25
4	Karnataka	36	9·00	4·50	4·50
5	Madhya Pradesh	28	7·00	3·50	3·50
6	Maharashtra	40	10·00	5·00	5·00
7	Himachal Pradesh	2	0·50	0·25	0·25
8	Rajasthan	24	6·00	3·00	3·00
9	Uttar Pradesh	16	4·00	2·00	2·00
10	Tamil Nadu	8	2·00	1·00	1·00
11	Bihar	4	1·00	0·50	0·50
12	Orissa	4	1·00	0·50	0·50
13	West Bengal	1·6	0·40	0·20	0·20
14	Kerala	0·8	0·20	0·10	0·10
15	Punjab	0·8	0·20	0·10	0·10
16	Assam	0·8	0·20	0·10	0·10
	TTAL :	232	58·00	29·00	29·00

Statement—III

National Watershed Development Programme for Rained Agriculture

Statewise physical targets and allotment of funds for the Works Programme for 1987-88:

Sl. No.	State	Annual physical targets (1000 ha.)	Annual outlay on works component @ Rs. 2500/- ha.	Central share (Rs. in crores)	State share (Rs. in crores)
1	2	3	4	5	6
1	Andhra Pradesh	28	7·00	3·50	3·50
2	Gujarat	28	7·00	3·50	3·50
3	Haryana	2	0·50	0·25	0·25
4	Karnataka	82	8·00	4·00	4·00
5	Madhya Pradesh	24	6·00	3·00	3·00
6	Maharashtra	36	9·00	4·50	4·50
7	Himachal Pradesh	2	0·50	0·25	0·25
8	Rajasthan	24	6·00	3·00	3·00
9	Uttar Pradesh	16	4·00	2·00	2·0
10	Tamil Nadu	8	2·00	1·00	1·0
11	Bihar	4	1·00	0·50	0·5
12	Orissa	4	1·00	0·50	0·50
13	West Bengal	1·6	0·40	0·20	0·20
14	Kerala	0·8	0·20	0·10	0·10
15	Punjab	0·8	0·20	0·10	0·10
16	Assam	0·8	0·20	0·10	0·10
	TOTAL :	212	53·00	26·50	26·50